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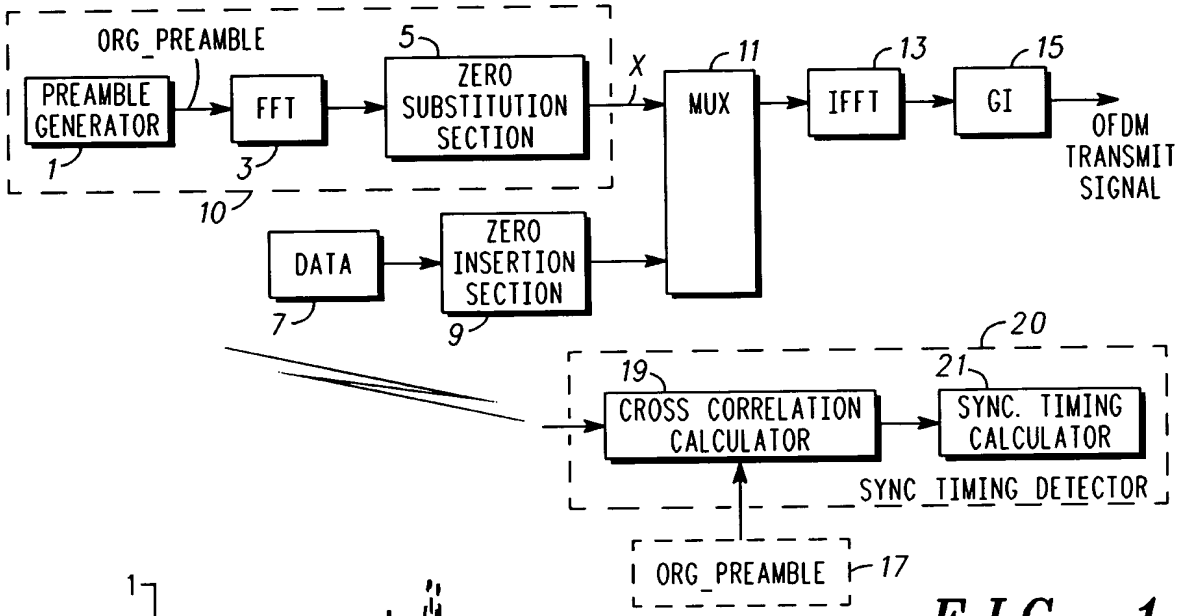

FIG. 1

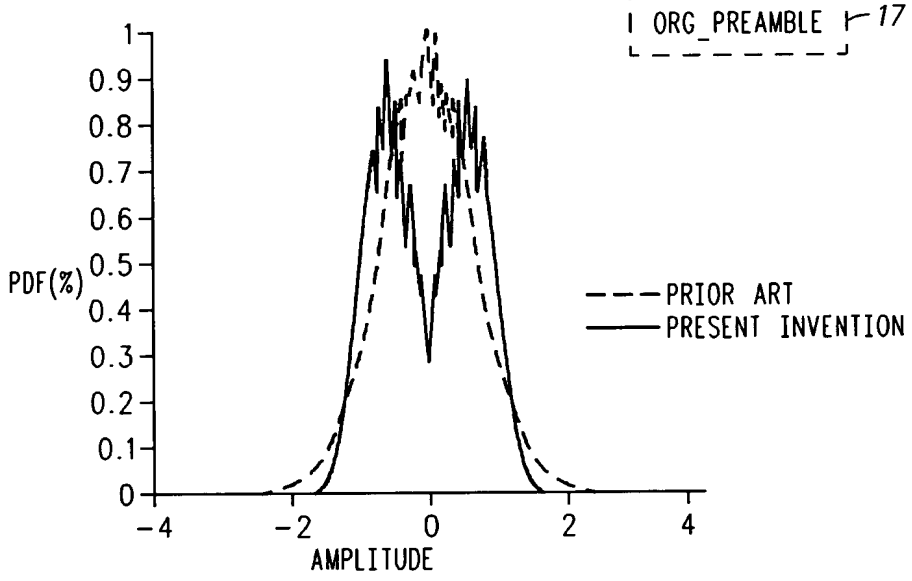

FIG. 2

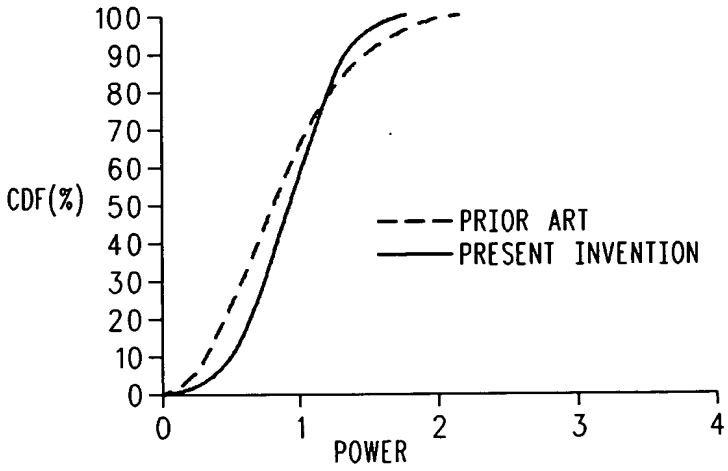

FIG. 3

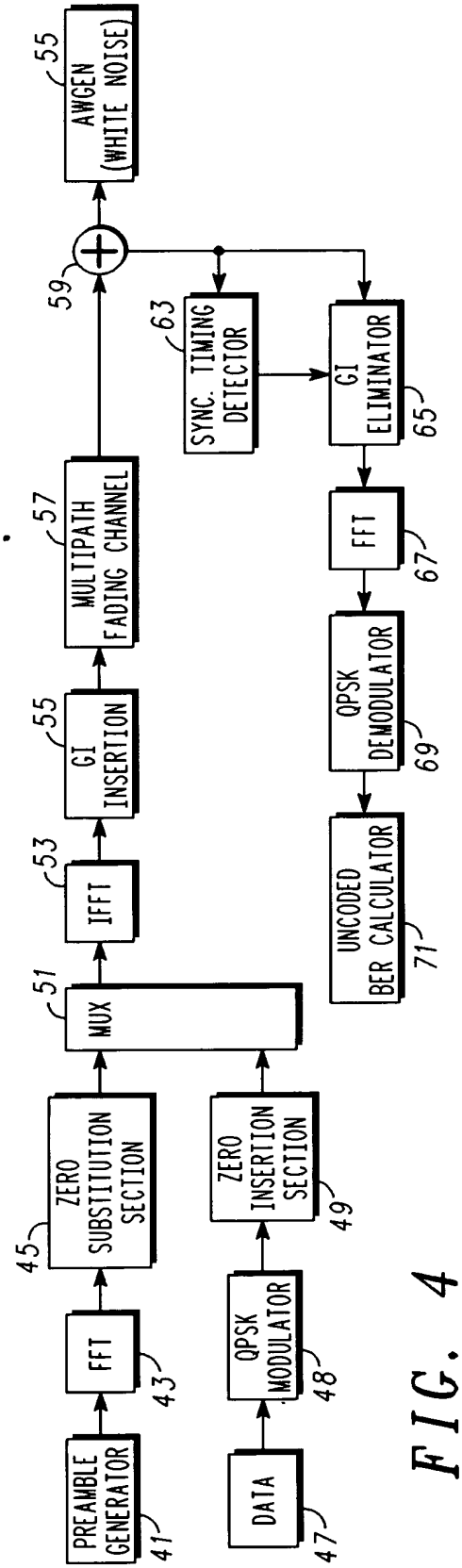
PREAMBLE GENERATOR
41
FFT
43
ZERO SUBSTITUTION SECTION
45
DATA
47
QPSK MODULATOR
48
ZERO INSERTION SECTION
49
MUX
51
IFFT
53
GI INSERTION
55
MULTIPATH FADING CHANNEL
57
AWGEN (WHITE NOISE)
55
59
SYNC. TIMING DETECTOR
63
GI ELIMINATOR
65
FFT
67
QPSK DEMODULATOR
69
UNCODED BER CALCULATOR
71

FIG. 4

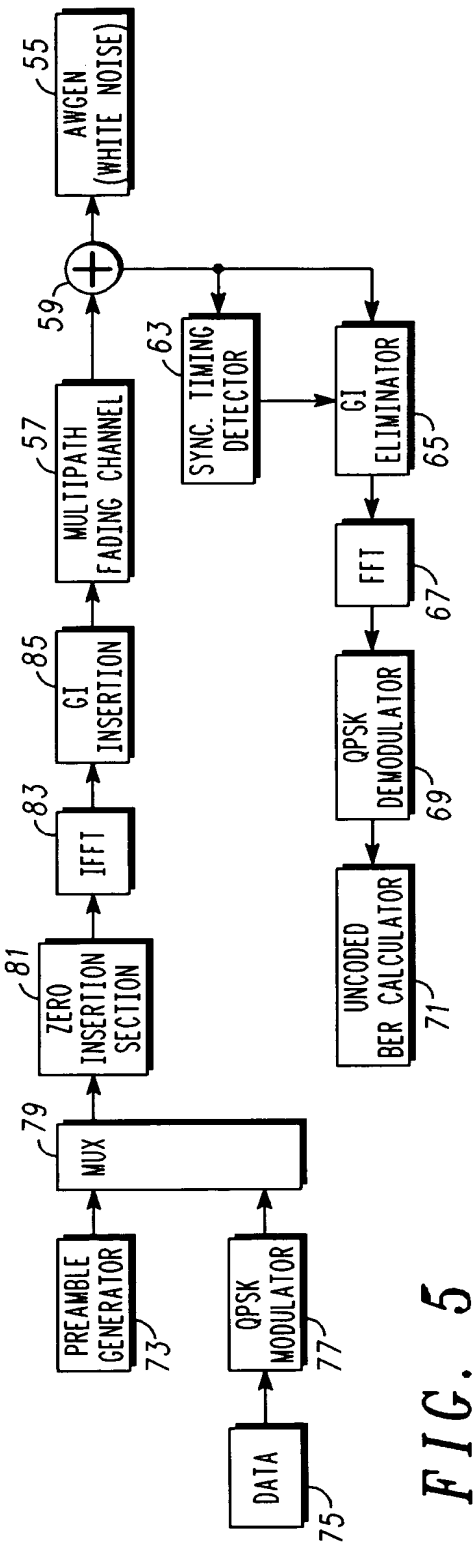
PREAMBLE GENERATOR
73
DATA
75
QPSK MODULATOR
77
MUX
79
ZERO INSERTION SECTION
81
IFFT
83
GI INSERTION
85
MULTIPATH FADING CHANNEL
57
AWGEN (WHITE NOISE)
55
59
SYNC. TIMING DETECTOR
63
GI ELIMINATOR
65
FFT
67
QPSK DEMODULATOR
69
UNCODED BER CALCULATOR
71

FIG. 5

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BANDWIDTH	101.25 MHz
NUMBER OF SUBCARRIERS	768
NUMBER OF IFFT/FFT POINTS	1024
OFDM SYMBOL PERIOD (EFFECTIVE DATA PLUS GI)	9.259uS (1024 SAMPLES+226 SAMPLES) (7.585uS + 1.674 uS)
FRAME LENGTH	55 OFDM SYMBOLS (52DTCH, 2PICH, 1SCH)
MODULATION	QPSK
CHANNEL MODEL	SEE FIG.7
OTHER CELL INTERFERENCE	GAUSS DISTRIBUTION (CNR=12dB)
CHANNEL ESTIMATION	PILOT SYMBOL ASSISTED ESTIMATION
SCH/DTCH	0, -2, -4, -6, -8, -10dB

FIG. 6

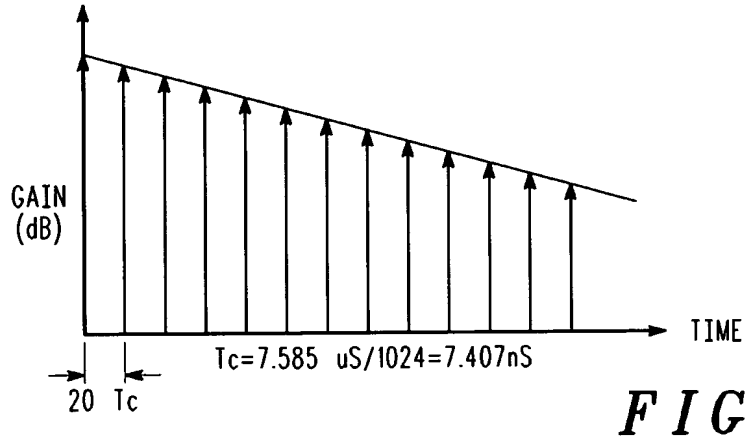

FIG. 7A

PATH NUMBER	DELAY (nS)	GAIN (dB)
1	0.000	0.000
2	148.145	-1.000
3	296.289	-2.000
4	444.436	-3.000
5	592.578	-4.000
6	740.723	-5.000
7	888.867	-6.000
8	1037.012	-7.000
9	1185.156	-8.000
10	1333.301	-9.000
11	1481.445	-10.000
12	1629.590	-11.000

FIG. 7B

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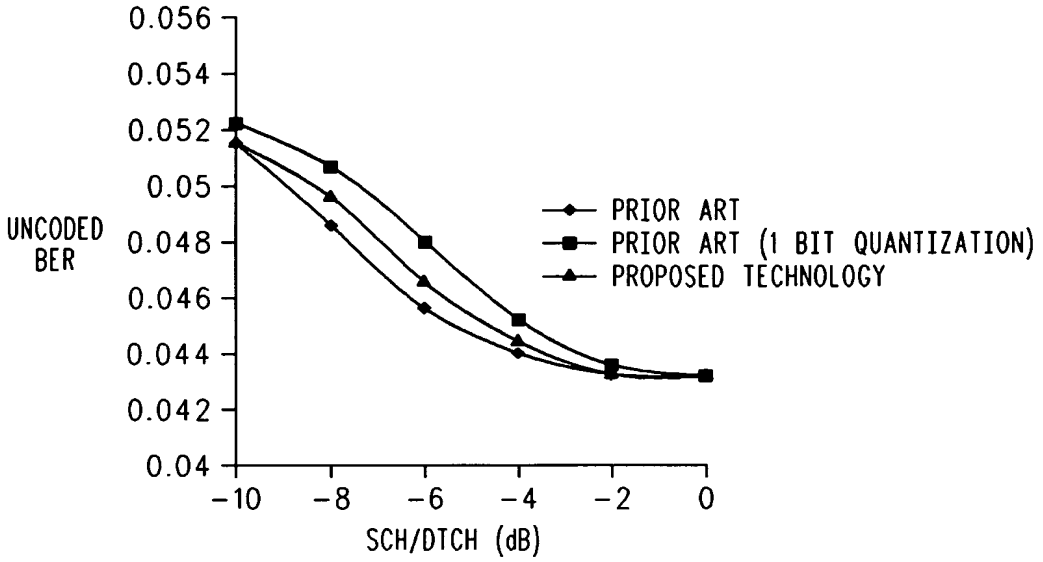

FIG. 8

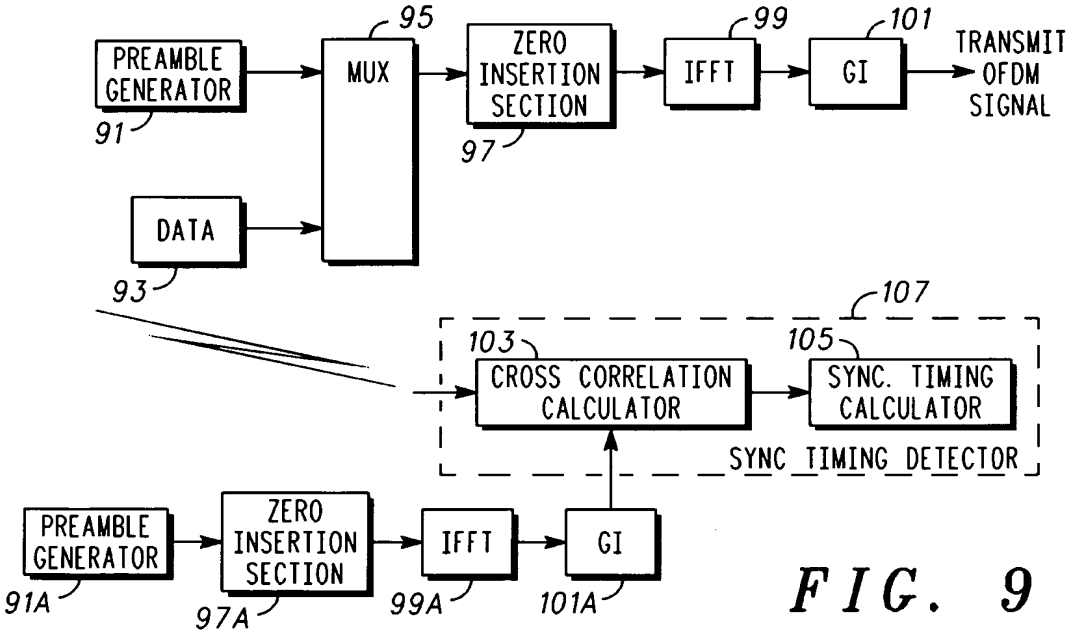

FIG. 9